

CLAIMS

What is claimed is:

1. A air induction system comprising:  
an air flow body;  
a filter housing comprising a first housing portion and a second housing portion in communication with said air flow body;  
a filter disposed in said filter housing; and  
a connector comprising a wing mounted to a post extending from said first housing portion and a slot to receive said wing on said second housing portion wherein said first housing portion has at least one cutout adjacent said post.
2. The air induction system of Claim 1 wherein said second housing portion has at least one guide to direct said wing into said slot.
3. The air induction system of Claim 2 wherein said guide causes said wing to twist in a first direction into said slot, said wing twisting in a second direction opposite said first direction once through said slot.
4. The air induction system of Claim 1 wherein said wing overlies said second housing portion following its passing through said slot.
5. The air induction system of Claim 1 wherein said post has a first portion extending laterally outwardly from a flange portion of said first housing portion, said post having a second portion extending at an angle with a substantial component generally perpendicular to said first portion, such that said cutouts are provided by sides of said first portion being spaced by said cutout from an opposed side of said flange.

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6. The air induction system of Claim 1 wherein said wing has a relaxed position generally extending along a first line, and said slot extending along a second line, non-parallel to said first line such that as said wing moves through said slot, said wing is twisted away from said relaxed position.

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7. An air filter housing for an air induction system comprising:  
a filter housing comprising a first housing portion and a second housing portion;  
a filter disposed in said filter housing; and  
a connector comprising a wing mounted to a post extending from said first housing portion and a slot to receive said wing on said second housing portion wherein said first housing portion has at least one cutout adjacent said post and wherein said second housing portion has at least one guide to direct said wing into said slot.
8. The air induction system of Claim 7 wherein said guide causes said wing to twist in a first direction into said slot, said wing twisting in a second direction opposite said first direction once through said slot.
9. The air induction system of Claim 7 wherein said wing overlies said second portion following its passing through said slot.
10. The air induction system of Claim 7 wherein said post has a first portion extending laterally outwardly from a flange portion of said first housing portion, said post having a second portion extending at an angle with a substantial component generally perpendicular to said first portion, such that said cutouts are provided by sides of said first portion being spaced by said cutout from an opposed side of said flange.
11. The air induction system of Claim 7 wherein said wing has a relaxed position generally extending along a first line, and said slot extending along a second line, non-parallel to said first line such that as said wing moves through said slot, said wing is twisted away from said relaxed position.

12. An air filter housing for an air induction system comprising:  
a filter housing comprising a first housing portion and a second housing portion;  
a filter disposed in said filter housing;  
a connector comprising a wing on a post extending from said first housing portion and a slot to receive said wing on said second housing portion wherein said first housing portion has at least one cutout adjacent said post, wherein said second housing portion has at least one guide to direct said wing into said slot, and wherein said guide causes said wing to twist in a first direction into said slot, said wing twisting in a second direction opposite said first direction once through said slot.
13. The air induction system of Claim 12 wherein said wing overlies said second portion following its passing through said slot.
14. The air induction system of Claim 12 wherein said post has a first portion extending laterally outwardly from a flange portion of said first housing portion, said post having a second portion extending at an angle with a substantial component generally perpendicular to said first portion, such that said cutouts are provided by sides of said first portion being spaced by said cutout from an opposed side of said flange.
15. The air induction system of Claim 12 wherein said wing has a relaxed position generally extending along a first line, and said slot extending along a second line, non-parallel to said first line such that as said wing moves through said slot, said wing is twisted away from said relaxed position.

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FOOTNOTES